

6K11/6Q11

Three-Unit Triode

With Medium-Mu Unit and Two High-Mu Units

DUODECAR TYPE

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ^a	6.3 ± 0.6	volts
Current	0.600 ± 0.040	0.600 ^b	amp
Warm-up time (Average)	11	—	sec
Peak heater-cathode voltage			

(Each unit):

Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 ^c max.	volts

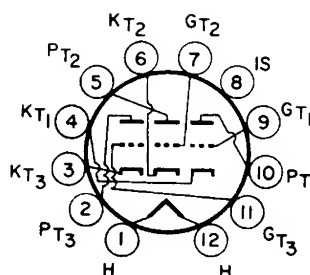
Direct Interelectrode Capacitances (Approx.):^d

	Unit No. 1	Unit No. 2	Unit No. 3	
Grid to plate	1.3	1.3	1.3	pf
Input: G to (K, IS, H)	1.9	1.8	1.8	pf
Output: P to (K, IS, H)	1.8	0.7	1.8	pf

Mechanical:

Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	1.875"
Seated Length	1.250" to 1.500"
Diameter	1.062" to 1.188"
Dimensional Outline (JEDEC 9-56)	See General Section
Bulb	T9
Base	Small-Button Duodecar 12-Pin (JEDEC No. E12-70)
Basing Designation for BOTTOM VIEW	12BY

- Pin 1-Heater
- Pin 2-Plate of Unit No. 3
- Pin 3-Cathode of Unit No. 3
- Pin 4-Cathode of Unit No. 1
- Pin 5-Plate of Unit No. 2
- Pin 6-Cathode of Unit No. 2
- Pin 7-Grid of Unit No. 2
- Pin 8-Internal Shield
- Pin 9-Grid of Unit No. 1
- Pin 10-Plate of Unit No. 1
- Pin 11-Grid of Unit No. 3
- Pin 12-Heater



AMPLIFIER — Class A₁

Unit No. 1	Unit No. 2 or 3
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Characteristics:

Plate Voltage	250	250	volts
Grid Voltage	-8.5	-2	volts



RADIO CORPORATION OF AMERICA
Electronic Components and Devices
Harrison, N. J.

DATA
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	<i>Unit No. 1</i>	<i>Unit No. 2 or 3</i>	
Amplification Factor.	17	100	
Plate Resistance (Approx.). . .	7700	62500	ohms
Transconductance.	2200	1600	μ mhos
Plate Current	10.5	1.2	ma
Grid Voltage (Approx.) for plate μ a = 10	-24	-	volts
Maximum Ratings, Design-Maximum Values:			
Plate Voltage	330	330	volts
Grid Voltage:			
Negative-bias value	50	50	volts
Positive-bias value	0	0	volts
Cathode Current	20		ma
Plate Dissipation	2.75	0.3	watts

^a At heater amperes = 0.600.

^b At heater volts = 6.3

^c The dc component must not exceed 100 volts.

^d Without external shield.

